## ARMY PUBLIC HEALTH CENTER (Provisional)



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#### **U.S. Army Influenza Activity Report** Week Ending 19 March 2016 (Week 11)

2015-2016 Seasonal Influenza Vaccination Coverage As of 25 February 2016										
95%	DOD									
97%	Army Active Duty									
93%	Army Guard									
84%	84% Army Reserve									

SYNOPSIS: Overall, ILI and influenza A activity, as well as the number of specimens tested, decreased among Army populations.

- ILI Activity: Army incident ILI outpatient visits in week 11 decreased from week 10. ILI visits were 3% higher than the same week last year.
- Influenza cases: Three hospitalized influenza cases were reported to APHC (Prov) through DRSi in week 11: 1 AD service member and 2 non-AD beneficiaries. Two of the cases were not vaccinated and had underlying conditions.
- Viral specimens: During week 11, 533 of 1755 (30%) laboratory specimens tested positive for respiratory pathogens. RHC-A reported 149 influenza A-positive specimens, RHC-C reported 98, RHC-P reported 45, RHC-E reported 28, and CENTCOM reported 5.

#### **Geographic Spread**



#### **United States**

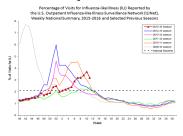
• In week 11, widespread and regional influenza activity was reported in Puerto Rico, Guam and all 49 states. The District of Columbia and Hawaii reported local influenza activity, while the US Virgin Islands did not report.

#### World Health Organization

Globally, high levels of influenza activity continue to be reported. In North America, influenza activity continued to increase and pneumonia activity was above threshold levels in Mexico.

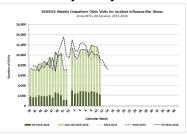


#### **ILI Activity United States**



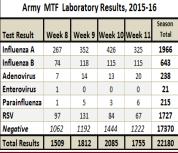
- Nationwide, during week 11, 3.2% of outpatient visits reported in ILINet were due to ILI, which is above the national baseline of 2.1%.
- The percentage of ILI outpatient visits ranged from 1.5% to 5.1% across all reporting regions.

#### **ILI Activity Army**



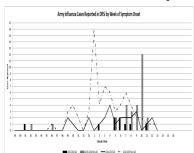
- During week 11, incident ILI activity was 3% higher than the same time last year and 9% higher than week 11 in 2013-2014.
- AD SMs accounted for 24% of incident ILI clinic visits during week 11. In 2014-2015, AD SMs comprised 25% of ILI clinic visits on average.

#### **Laboratory Respiratory Specimen Testing**



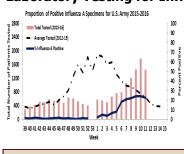
- In week 11, 30% (533) of specimens tested positive.
- Influenza A accounted for 61% of positive specimens.
- Influenza B accounted for 22% of positive specimens.
- RSV accounted for 13% of positive specimens while adenovirus accounted for 4%, and parainfluenza for 1%.

#### **DRSi Influenza Case Reporting**

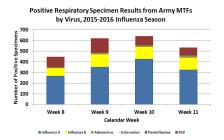


- In week 11, three cases of influenza -associated hospitalizations were reported in DRSi; 1 AD service member and 2 non-AD beneficiaries. Two of the cases were not vaccinated and both had underlying conditions.
- A total of 38 hospitalized cases have been reported to date this season, compared to 89 last season.

#### **Laboratory Testing for Influenza A**



- In week 11, 325 of 1448 (22.4%) specimens tested positive for influenza A. This was a decrease from week 10 (24%). 273 (84%) of the positive influenza A specimens were in non-AD personnel.
- RHC-A reported 149 (46%) of the total influenza A-positive specimens. RHC-C reported 98 (30%) positive specimens, RHC-P reported 45 (14%), RHC-E reported 28 (9%), and CENTCOM reported 5 (2%).



Additional Resources: Army Influenza Reports; ARD Reports; AFHSC Influenza Reports; NHRC FRI Reports; DoD Global Influenza Surveillance Program; DoD Pandemic Influenza Watchboard; CDC; WHO

Key: ILI-Influenza-Like Illness; DRSi- Disease Reporting System Internet; NHRC- Naval Health Research Center; ADV-

Adenovirus; RSV-Respiratory Syncytial Virus; DEP- Disease Epidemiology Program; SM-Service Member

Questions? **Email APHC-DEP** 410-417-3774

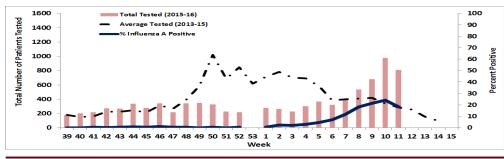




### **U.S. Army Influenza Activity Report**

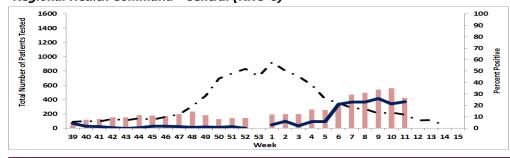
Proportion of Influenza A Positive Specimens by Week and Region, Army Medical Laboratories, 2015-2016 as Compared to 2013-2015

#### Regional Health Command - Atlantic (RHC-A)



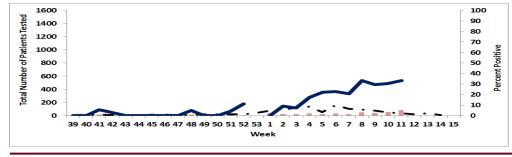
	Week 11												
Age Group	AD	Non-AD Ben	Season Total										
< 18	0	87	398										
18-29	6	10	84										
30-39	9	5	94										
40-49	4	10	84										
50-59	1	6	53										
60+	0	11	39										
Total	20	129	752										

#### Regional Health Command - Central (RHC-C)



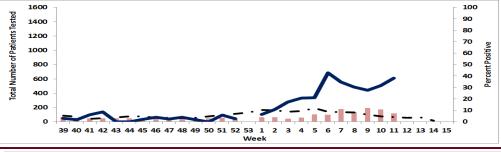
Week 11												
Age Group	AD	Non-AD Ben	Season Total									
< 18	0	54	363									
18-29	4	7	105									
30-39	7	10	104									
40-49	2	4	67									
50-59	1	3	48									
60+	0	6	39									
Total	14	84	726									

#### Regional Health Command - Europe (RHC-E)



Week 11												
Age Group	AD	Non-AD Ben	Season Total									
< 18	0	13	41									
18-29	2	0	19									
30-39	5	2	32									
40-49	4	0	14									
50-59	0	2	3									
60+	0	0	1									
Total	11	17	110									

#### Regional Health Command - Pacific (RHC-P)



Week 11											
Age Group	AD	Non-AD Ben	Season Total								
< 18	0	21	184								
18-29	1	3	51								
30-39	О	3	49								
40-49	4	2	36								
50-59	0	7	24								
60+	0	4	26								
Total	5	40	370								

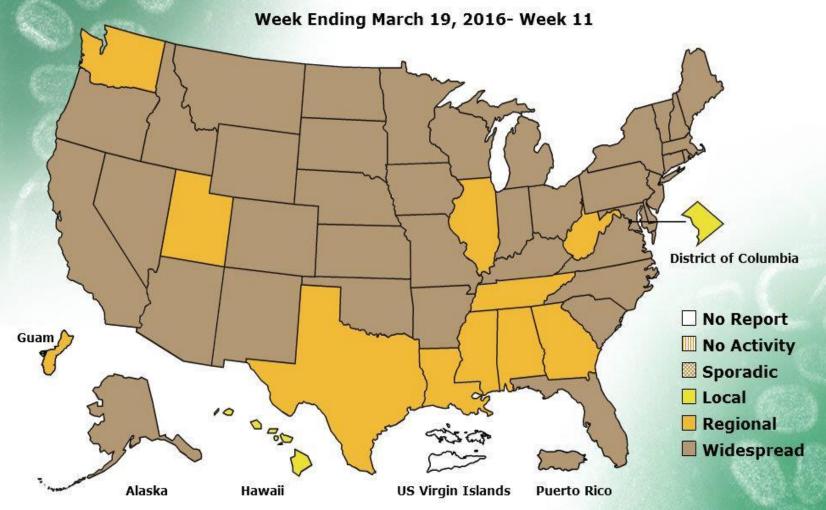
	Number of Positive Influenza A Specimens by Duty Status and Region															
	Week 4 Week 5		eek 5	Week 6 Week 7		Week 8		Week 9		Week 10		Week 11				
Region	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD
RHC-A	1	8	5	12	6	17	5	41	14	83	24	121	35	199	20	129
RHC-C	5	10	4	11	17	53	14	94	21	92	18	123	23	97	14	84
RHC-E	2	4	1	5	4	4	1	4	5	12	7	6	10	8	11	17
RHC-P	3	9	5	17	8	34	10	52	9	31	14	39	10	44	5	40
CENTCOM	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	3

Locations providing week 11 laboratory data as of 24 March 2016: Korea, Ft Belvoir (NCR), Ft Benning, Ft Bliss, Ft Bragg, Ft Campbell, Ft Carson, Ft Drum, Ft Eustis, Ft Gordon, Ft Hood, Ft Huachuca, Ft Irwin, Ft Jackson, Ft Knox, Ft Leavenworth, Ft Lee, Ft Leonard Wood, Ft Lewis, Ft Meade, Ft Polk, Ft Riley, Ft Rucker, Ft Sam Houston, Ft Sill, Ft Stewart, Ft Wainwright, Landstuhl, Redstone Arsenal, Tripler, and Walter Reed.

# FLUVIEW



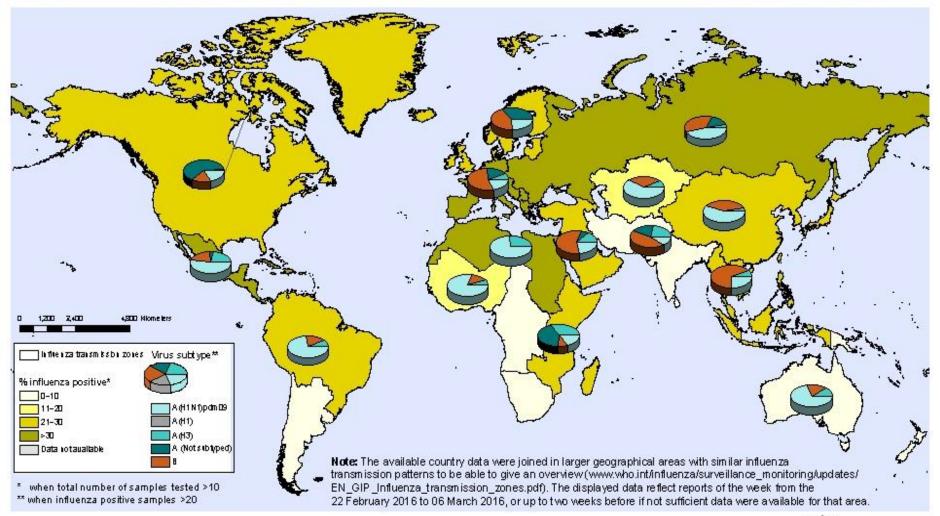
A Weekly Influenza Surveillance Report Prepared by the Influenza Division Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists\*



<sup>\*</sup>This map indicates geographic spread and does not measure the severity of influenza activity.

#### Percentage of respiratory specimens that tested positive for influenza By influenza transmission zone

Status as of 18 March 2016

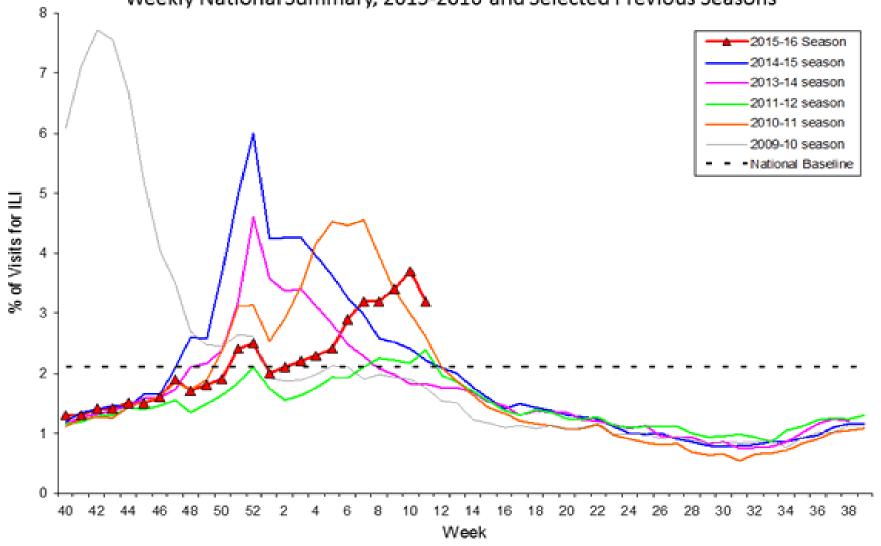


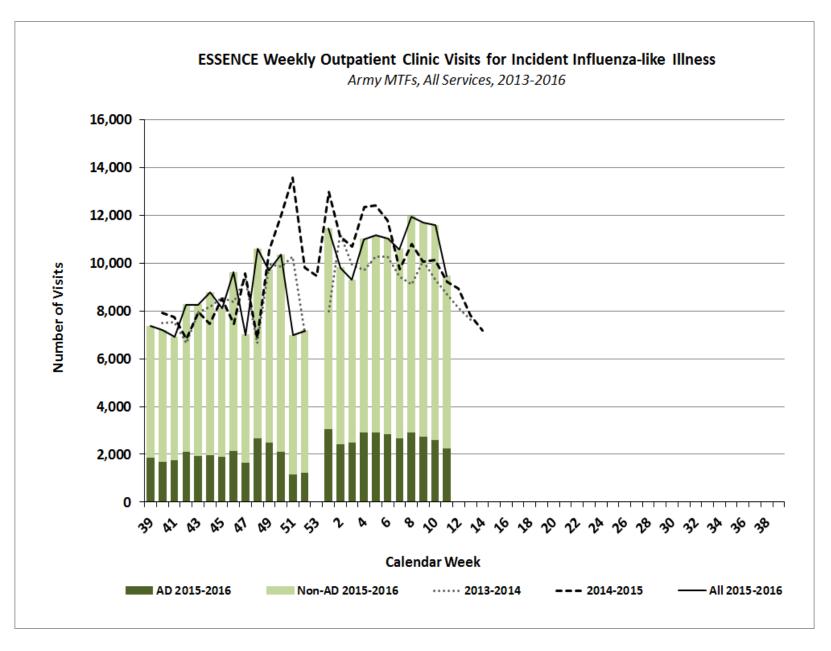
The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, tenitory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: Global Influenza Surveillance and Response System (GISRS), FluNet (www.who.int/flunet),



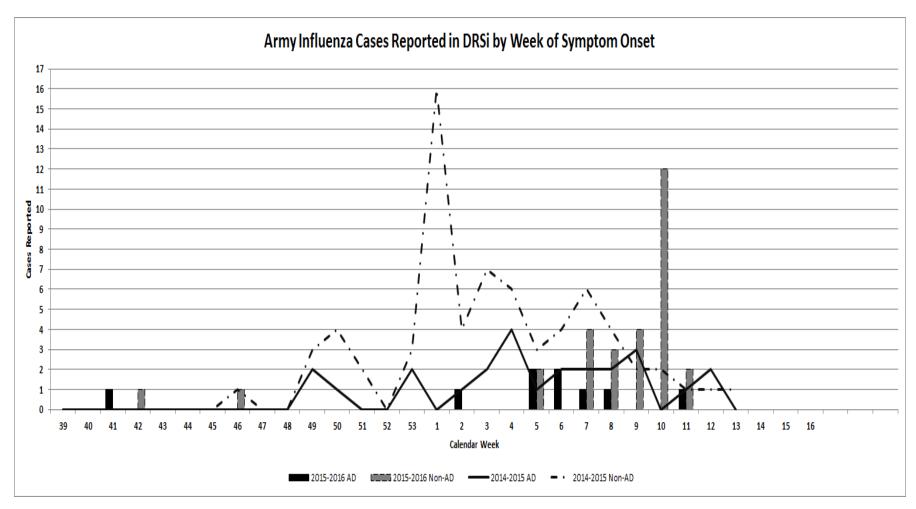
Percentage of Visits for Influenza-like Illness (ILI) Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2015-2016 and Selected Previous Seasons



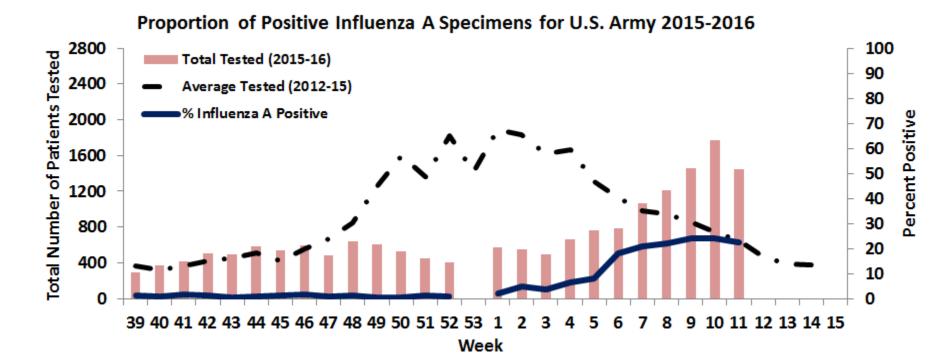


Army MTF Laboratory Results, 2015-16													
Test Result	est Result Week 8 Week 9 Week 10 Week 11												
Influenza A	267	352	426	325	1966								
Influenza B	74	118	115	115	643								
Adenovirus	7	14	13	20	238								
Enterovirus	1	0	0	0	21								
Parainfluenza	1	5	3	6	215								
RSV	97	131	84	67	1727								
Negative	1062	1192	1444	1222	17370								
Total Results	1509	1812	2085	1755	22180								

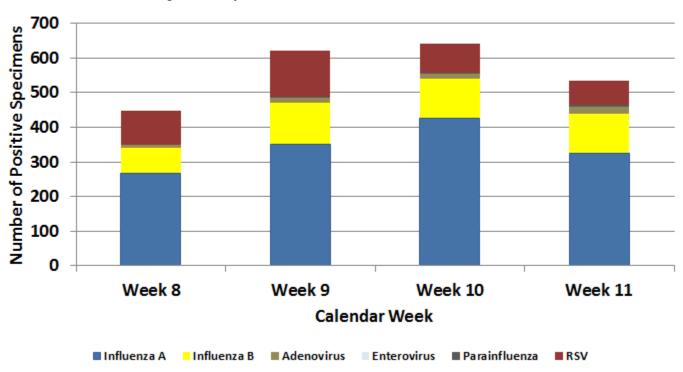




**Note:** Reportable influenza cases are defined as only cases that have been hospitalized and are under the age of 65. See <u>Armed Forces</u> Reportable Medical Events Guidelines and Case Definitions for more information Data as of 24 March 2016.



## Positive Respiratory Specimen Results from Army MTFs by Virus, 2015-2016 Influenza Season



	Number of Positive Influenza A Specimens by Duty Status and Region															
	Week 4 Week 5 Week 6		Week 7		Week 8		Week 9		Week 10		Week 11					
Region	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD	AD	Non-AD
RHC-A	1	8	5	12	6	17	5	41	14	83	24	121	35	199	20	129
RHC-C	5	10	4	11	17	53	14	94	21	92	18	123	23	97	14	84
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RHC-P	3	9	5	17	8	34	10	52	9	31	14	39	10	44	5	40
CENTCOM	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	3